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Pat. No. 06054344 - 4

Issue Date: 12/20/04

Group ID: A

User ID: Vhmcbur

Page 1

KS: 2,291

Warning [Pages Of US References:]

page 7 has no references

Warning [Pages Of Foreign References:]

page 1 has no references

page 2 has no references

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Rule 47 Continuing Data PCT Disclaimer

No No No No

Microfiche Appendix CPA tag

No No

Foreign Priority Claimed: No

Acknowledged: No

State Code: CA Country Code:

Text Endorsement: 09504968.021500

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JACKET

| <u>SERIAL NUMBER</u> | <u>FILING DATE</u> | <u>CLASS</u> | <u>SUBCLASS</u> | <u>GAU</u> |
|----------------------|--------------------|--------------|-----------------|------------|
| 09/504,968 | 02/15/00 | 705 | 57 | 3621 |

FOREIGN PRIORITY

Country Document Number Date

DISCLAIMER

/ /

TITLE

Method and apparatus for implementing revocation in broadcast networks

MICROFICHE APPENDIX

ASSISTANT EXAMINER:

| <u>First:</u> | <u>Middle:</u> | <u>Last:</u> |
|---------------|----------------|--------------|
| Firmin | | Backer |

PRIMARY EXAMINER:

| <u>First:</u> | <u>Middle:</u> | <u>Last:</u> |
|---------------|----------------|--------------|
| James | P. | Trammell |

CLAIMS ALLOWED

Total Print

35 3

DRAWINGS

Sheets Figures Print

4 4 Y

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BLUE SLIP INFORMATION

| <u>SERIAL NUMBER</u> | <u>CLASS</u> | <u>SUBCLASS</u> | <u>GAU</u> |
|----------------------|--------------|-----------------|------------|
| 09/504,968 | 705 | 57 | 3621 |

| <u>INDEP. CLAIMS</u> | <u>TOTAL CLAIMS</u> |
|----------------------|---------------------|
| 1,3,16,21,27 | 35 |

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BLUE SLIP (Page 1)

INTERNATIONAL CLASSIFICATION

Class SubClass

G06F 17/60

H04K 1/00

H04L 9/00

CROSS-REFERENCES

Class SubClass

705 58;56

713 158

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TERM EXTENSION

0

FIELD OF SEARCH

Class SubClass

705 58;57;51

713 158;155

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OATH

INVENTOR NAME

First: Middle: Last: Signed:

Brant L. Candelore Yes

City: Escondido

State: CA ZIP Code: Country: Foreign ZIP:

INVENTOR NAME

First: Middle: Last: Signed:

Mark Eyer Yes

City: San Diego

State: CA ZIP Code: Country: Foreign ZIP:

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PCT INFO

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CONTINUING DATA (Page 1)

LINE CODE SERIAL NUMBER FILING DATE STATUS DOCUMENT NO. ISSUE DATE

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REFERENCES (Page 1) SERIAL NUMBER: 09/504,968
FORM 892

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|---------------------|-------------|-----------------|--------------|-----------------|
| 4,785,361 | 11/1988 | Brotby | 705 | 58 |

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
|------------------------|-------------|----------------|--------------|-----------------|

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 2) SERIAL NUMBER: 09/504,968
FORM 892

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|--------------------------|-------------|-----------------|--------------|-----------------|
| *6,192,131 | 02/2001 | Geer et al. | 380 | 247 |
| No issue date available. | | | | |
| *6,272,538 | 08/2001 | Holden et al. | 709 | 223 |
| No issue date available. | | | | |
| *6,134,551 | 10/2000 | Aucsmith | 707 | 10 |
| No issue date available. | | | | |
| *6,256,747 | 07/2001 | Inohara et al. | 709 | 201 |
| No issue date available. | | | | |
| *6,230,194 | 05/2001 | Frailong et al. | 709 | 220 |
| No issue date available. | | | | |
| *6,189,096 | 02/2001 | Haverty | 713 | 155 |
| No issue date available. | | | | |
| *6,230,266 | 05/2001 | Perlman et al. | 713 | 156 |
| No issue date available. | | | | |

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
|------------------------|-------------|----------------|--------------|-----------------|

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 3) SERIAL NUMBER: 09/504,968
FORM 892

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|--------------------------|-------------|----------------------|--------------|-----------------|
| *6,233,577 | 05/2001 | Ramasubramani et al. | 707 | 9 |
| No issue date available. | | | | |
| *6,442,689 | 08/2002 | Kocher | 713 | 158 |
| No issue date available. | | | | |
| *6,247,127 | 06/2001 | Vandergeest | 713 | 100 |

No issue date available.

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
| WO 01/11819 A1 | 02/2001 | WOX | H04L | 9/32 |
| WO 00/51039 A1 | 08/2000 | WOX | G06F | 17/60 |
| 2328645 | 07/2001 | CAX | | |

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Moni Naor, Kobbi Nissim, Certificate Revocatin and Certifcate update,
Apr. 2000, IEEE Journal on Selected Areas in Communications, IEEE,
vol. 18, No. 4, pp. 561-570.

Joon S. Park, Ravi Sanduh, Biding identities and Attributes using
Digitacilly Signed Certificates, 2000 IEEE.

Peter Pizza, E-Signed, Sealed, and Delivered, Apr. 2001, Security
Management, vol. 45, No. 4, pp. 72-77.

Shavik Kirstnamurthy, Securant Technologies Delivers Broad PKI
Integration to Enable standars Based security, Oct. 4, 1999, Business
Wires.

=====

REFERENCES (Page 4) SERIAL NUMBER: 09/504,968
FORM 1449

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|--------------------------|-------------|-----------------|--------------|-----------------|
| 5,949,877 | 09/1999 | Traw et al. | 380 | 4 |
| *6,069,647 | 05/2000 | Sullivan et al. | 348 | 5.5 |
| No issue date available. | | | | |
| *6,226,618 | 05/2001 | Downs et al. | 705 | 1 |
| No issue date available. | | | | |

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
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OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

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REFERENCES (Page 5) SERIAL NUMBER: 09/504,968
FORM 1449

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|---------------------|-------------|-----------------|--------------|-----------------|
|---------------------|-------------|-----------------|--------------|-----------------|

| | | | | |
|-----------|---------|---------------|--|--|
| 5,138,659 | 08/1992 | Kelkar et al. | | |
| 5,144,662 | 09/1992 | Welmer | | |
| 5,485,577 | 01/1996 | Eyer et al. | | |
| 5,473,692 | 12/1995 | Davis | | |
| 5,539,828 | 07/1996 | Davis | | |

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
|------------------------|-------------|----------------|--------------|-----------------|

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

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REFERENCES (Page 6) SERIAL NUMBER: 09/504,968
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| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|---------------------|-------------|-----------------|--------------|-----------------|
|---------------------|-------------|-----------------|--------------|-----------------|

| | | | | |
|-----------|---------|------------------|--|--|
| 5,568,552 | 10/1996 | Davis | | |
| 5,574,787 | 11/1996 | Ryan | | |
| 5,615,265 | 03/1997 | Coutrot | | |
| 5,652,795 | 07/1997 | Dillon et al. | | |
| 5,666,293 | 09/1997 | Metz et al. | | |
| 5,732,346 | 03/1998 | Lazaridis et al. | | |
| 5,757,909 | 05/1998 | Park | | |

5,768,539/ 06/1998 Metz et al/
5,796,829/ 08/1998 Newby et al/
5,796,840/ 08/1998 Davis/
5,802,176/ 09/1998 Audebert/
5,805,712/ 09/1998 Davis/
5,850,218/ 12/1998 LaJoie et al/
5,949,881/ 09/1999 Davis/
*6,021,201/ 02/2000 Bakhle et al/
No issue date available.
*6,028,932/ 02/2000 Park/
No issue date available.
*6,061,451/ 05/2000 Muratani et al/
No issue date available.
*6,088,450 07/2000 Davis et al/
No issue date available.
*6,105,134/ 08/2000 Pinder et al/
No issue date available.
*6,154,206/ 11/2000 Ludtke/
No issue date available.
*6,157,719/ 12/2000 Wasilewski et al/
No issue date available.
*6,185,546/ ^{OK} 02/2001 Davis
No issue date available.
*6,199,053/ ^{OK} 03/2001 Herbert et al/
No issue date available.
*6,209,098 03/2001 Davis/
No issue date available.
*6,263,506/ 07/2001 Ezaki et al/
No issue date available.
*6,266,416/ 07/2001 Sigbjørslashed.ensen et al.
No issue date available.
*6,266,480/ 07/2001 Ezaki et al/

POA
POA

←

No issue date available.

*6,292,892/ 09/2001 Davis/
No issue date available.

*6,351,538 02/2002 Uz/
No issue date available.

*6,398,533 06/2002 Hanya et al.
No issue date available.

*6,389,537 05/2002 Davis et al.
No issue date available.

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
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OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

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Microfiche Appendix CPA tag

No/ No/

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Acknowledged: No/

State Code: CA/ Country Code:

Text Endorsement: 09504968.021500/

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JACKET

| <u>SERIAL NUMBER</u> | <u>FILING DATE</u> | <u>CLASS</u> | <u>SUBCLASS</u> | <u>GAU</u> |
|----------------------|--------------------|--------------|-----------------|------------|
| 09/504,968/ | 02/15/00/ | 705/ | 57/ | 3621/ |

FOREIGN PRIORITY
Country Document Number Date

DISCLAIMER

/ /

TITLE

Method and apparatus for implementing revocation in broadcast networks/

MICROFICHE APPENDIX

ASSISTANT EXAMINER:

First: Middle: Last:

Firmin/ Backer/

PRIMARY EXAMINER:

First: Middle: Last:

James/ P./ Trammell/

CLAIMS ALLOWED

Total Print

35 / 3 /

DRAWINGS

Sheets Figures Print

4 / 4 / Y /

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BLUE SLIP INFORMATION

| <u>SERIAL NUMBER</u> | <u>CLASS</u> | <u>SUBCLASS</u> | <u>GAU</u> |
|----------------------|--------------|-----------------|------------|
| 09/504,968, | 705, | 57, | 3621 / |

INDEP. CLAIMS

TOTAL CLAIMS

1,3,16,21,27 / 35 /

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BLUE SLIP (Page 1)

INTERNATIONAL CLASSIFICATION

Class SubClass

G06F, 17/60 /
H04K, 1/00 /
H04L, 9/00

CROSS-REFERENCES

Class SubClass

705 / 58;56 /
713 / 158 /

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TERM EXTENSION

0 /

FIELD OF SEARCH

Class SubClass

705, 58;57;51

713, 158;155/

=====

OATH

INVENTOR NAME

| <u>First:</u> | <u>Middle:</u> | <u>Last:</u> | <u>Signed:</u> |
|------------------|------------------|-----------------|---------------------|
| Brant/ | L./ | Candelore/ | Yes/ |
| <u>City:</u> | Escondido/ | | |
| <u>State:</u> CA | <u>ZIP Code:</u> | <u>Country:</u> | <u>Foreign ZIP:</u> |

INVENTOR NAME

| <u>First:</u> | <u>Middle:</u> | <u>Last:</u> | <u>Signed:</u> |
|-------------------|------------------|-----------------|---------------------|
| Mark/ | | Eyer/ | Yes/ |
| <u>City:</u> | San Diego/ | | |
| <u>State:</u> CA/ | <u>ZIP Code:</u> | <u>Country:</u> | <u>Foreign ZIP:</u> |

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REFERENCES (Page 1) SERIAL NUMBER: 09/504,968,
FORM 892 /

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|---------------------|-------------|-----------------|--------------|-----------------|
| 4,785,361/ | 11/1988 | Brothby | 705 | 58 |

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
|------------------------|-------------|----------------|--------------|-----------------|

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

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REFERENCES (Page 2) SERIAL NUMBER: 09/504,968
FORM 892

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|--|-------------|------------------|--------------|-----------------|
| / *6,192,131 No issue date available. | /02/2001 | Geer, Jr. et al. | 380/ | 247/ |
| *6,272,538 No issue date available. | /08/2001 | Holden et al. | 709/ | 223/ |
| / *6,134,551 No issue date available. | /10/2000 | Aucsmith | 707/ | 10/ |
| / *6,256,747 No issue date available. | /07/2001 | Inohara et al. | 709/ | 201/ |
| / *6,230,194 No issue date available. | /05/2001 | Frailong et al. | 709/ | 220/ |
| / *6,189,096 No issue date available. | /02/2001 | Haverty | 713/ | 155/ |
| / *6,230,266 No issue date available. | /05/2001 | Perlman et al. | 713/ | 156/ |

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
|------------------------|-------------|----------------|--------------|-----------------|

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

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FORM 892

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| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|--|-------------|----------------------|--------------|-----------------|
| / *6,233,577 No issue date available. | /05/2001 | Ramasubramani et al. | /707 | /9 |
| *6,442,689 No issue date available. | /08/2002 | Kocher | /713 | /158 |
| / *6,247,127 | /06/2001 | Vandergeest | /713 | /100 |

No issue date available.

FOREIGN REFERENCES

| <u>Foreign Doc No.</u> | <u>Date</u> | <u>Country</u> | <u>Class</u> | <u>SubClass</u> |
|------------------------|-------------|----------------|--------------|-----------------|
| WO 01/11819 A1/ | /02/2001 | WOX/ | H04L/ | 9/32/ |
| WO 00/51039 A1/ | /08/2000 | WOX/ | G06F/ | 17/60/ |
| 2328645/ | /07/2001 | CAX/ | | |

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

Moni Naor, Kobbi Nissim, Certificate Revocatin and Certifcate update,
Apr. 2000, IEEE Journal on Selected Areas in Communications, IEEE,
vol. 18, No. 4, pp. 561-570.

Joon S. Park, Ravi Sanduh, Biding identities and Attributes using
Digitacilly Signed Certificates, 2000 IEEE.

Peter Pizza, E-Signed, Sealed, and Delivered, Apr. 2001, Security
Management, vol. 45, No. 4, pp. 72-77.

Shavik Kirstnamurthy, Securant Technologies Delivers Broad PKI
Integration to Enable standars Based security, Oct. 4, 1999, Business
Wires.

=====
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FORM 1449

U.S. REFERENCES

| <u>U.S. Pat No.</u> | <u>Date</u> | <u>Patentee</u> | <u>Class</u> | <u>SubClass</u> |
|--------------------------|-------------|-----------------|--------------|-----------------|
| /5,949,877 | /09/1999 | Traw et al/ | 380/ | 4/ |
| *6,069,647 | /05/2000 | Sullivan et al/ | 348/ | 5.5/ |
| No issue date available. | | | | |
| *6,226,618 | /05/2001 | Downs et al./ | 705/ | 1/ |
| No issue date available. | | | | |

FOREIGN REFERENCES

Foreign Doc No. Date Country Class SubClass

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

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REFERENCES (Page 5) SERIAL NUMBER: 09/504,968
FORM 1449 /

U.S. REFERENCES

U.S. Pat No. Date Patentee Class SubClass

FOREIGN REFERENCES

Foreign Doc No. Date Country Class SubClass

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 6) SERIAL NUMBER: 09/504,968
FORM 1449 /

U.S. REFERENCES

U.S. Pat No. Date Patentee Class SubClass

FOREIGN REFERENCES

Foreign Doc No. Date Country Class SubClass

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

=====

REFERENCES (Page 7) SERIAL NUMBER: 09/504,968
FORM 1449 /

U.S. REFERENCES

U.S. Pat No. Date Patentee Class SubClass

FOREIGN REFERENCES

Foreign Doc No. Date Country Class SubClass

OTHER REFERENCE CITATIONS (incl. Author, Title, Date, Pertinent Pages, etc.)

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